

## **CCNP Course Content:35-40hours**

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### Course Outline

#### **CCNP - Advanced Routing**

##### **CCNP 01**

- Overview of Scalable Internetworks
- Advanced IP Addressing Management
- Routing Overview
- Routing Information Protocol
- EIGRP
- OSPF
- IS-IS
- Route Optimization
- Routing Overview

##### **CCNP 02**

- Wans
- Modems and ASYNC Connections
- PPP
- ISDN and DDR
- Dialer Profiles
- Frame Relay
- Managing Frame Relay Traffic
- Wan Backup
- Managing and Optimizing Traffic
- Scaling IP Addressing with NAT
- Using AAA Scale Acces Control
- Broadband Connections
- Virtual Private Network

#### **CCNP - Multilayer Switching**

##### **CCNP 03**

- Designing a Network Using the Campus Infrastructure Module

- Defining VLANs
- Implementing Spanning Tree
- Spanning Tree Enhancements
- Implementing Multilayer Switching
- Implementing Redundancy in The Routing Layer
- Minimizing Service Loss and Data Theft in a Switched Network
- Configuring Campus Switches to Support Voice and Video Applications

## **CCNP - Network Troubleshooting**

### **CCNP 04**

- Documenting and Baselining The Network Overview
- Troubleshooting Methodologies and Tools
- Troubleshooting at The Physical Layer
- Layer 2 Troubleshooting
- Layer 3 Troubleshooting
- Layer 4 Troubleshooting
- Layer 1-7 Troubleshooting